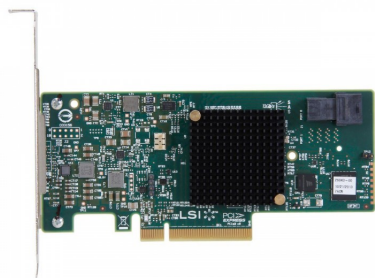


Broadcom 9341-4i Datasheet



Broadcom LSI 9341-4i LSI00419 PCIe 3.0 x8 SAS3004 4 Internal Ports MegaRAID SATA+SAS RAID Controller

9341-4i

The MegaRAID SAS 9341-4i RAID controller and the MegaRAID SAS 9341-8i RAID controller are PCI-Express® (PCIe®) 3.0, low-profile controllers with RAID control capability. You can use these controllers in a system that supports both enterprise-class SAS drives and desktop-class SATA III drives. In addition, these controllers support integrated MegaRAID (iMR) functionality.

The MegaRAID SAS 9341-4i RAID controller, which is based on the LSISAS3004 I/O controller, uses a 16-MB Flash memory device for storing the BIOS and firmware and controls four internal SAS/SATA ports through one SFF-8643 mini-SAS HD-4i internal connector.

The MegaRAID SAS 9341-8i RAID controller, which is based on the LSISAS3008 I/O controller, uses a 16-MB Flash memory device for storing the BIOS and firmware and controls eight internal SAS/SATA ports through two SFF-8643 mini-SAS HD-4i internal connectors.

These 12Gb/s MegaRAID SATA+SAS RAID controllers are based on the LSI first-to-market SAS IC technology and proven MegaRAID technology. As third-generation PCIe RAID controllers, these controllers address the growing demand for

increased data throughput and scalability requirements across midrange and enterprise-class server platforms. These RAID controllers provide these features:

- 12.0 Gb/s SAS III performance
- 6.0 Gb/s SATA III performance
- Eight-lane 8 GT/s PCIe host interface

SAS technology brings a wealth of options and flexibility with the use of SAS devices and SATA devices within the same storage infrastructure. However, SAS devices and SATA devices bring individual characteristics that make each one a more suitable choice depending on your storage needs. MegaRAID products give you the flexibility to combine these two similar technologies on the same controller, within the same enclosure, and in the same virtual drive.

Specifications

- Product: MegaRAID SAS 9341-4i
- MPN: 05-26105-00

- OPN: LSI00419
- I/O Controller: LSI SAS3004
- Solution Provided: Low-cost, green SATA+SAS RAID solution for high-density servers and workstations with the flexibility to use both SATA and SAS hard drives and solid state drives
- Physical Dimensions: 2.6" x 6.0"
- Connectors: One, x4, SFF-8643 mini-SAS HD horizontal connector placement
- Max Number of Physical Devices
 - Non-RAID (JBOD Mode): 64
 - RAID 0: 32 per volume
 - RAID 1: 2 per volume plus hot spare: RAID 5: 32 per volume
 - RAID 10: 32 per volume
 - RAID 50: 32 per volume
- Host Bus Type: 8-lane, 5 GT/s PCI Express 3.0 Compliant
- Data Transfer Rates: Up to 12Gb/s per port

- Key RAID Data Protection Features
 - RAID levels 0, 1, 5, 10, 50 and JBOD mode
 - Online Capacity Expansion (OCE)
 - Online RAID Level Migration (RLM)
 - Auto resume after loss of system power during array rebuild or RLM
 - Single controller multipathing (Load balancing)
 - Drive hot plug support
 - Drive roaming
 - Selectable logical drive as boot drive
 - Virtual Disk (VD) Consistency Check
 - Fast initialization for quick array setup
 - Staggered disk spin up
 - Hot Spare support (up to 8)
 - Global, dedicated (copy back), enclosure affinity and emergency SATA support
 - Automatic rebuild support
 - SafeStore Encryption Services for SED HDDs
 - Shielded state drive diagnostic technology
 - Patrol Read media scan and repair
 - Online HDD firmware update
 - Error recovery support
 - SAS TCQ support
 - SATA NCQ support
 - Support for native 4K HDDs
 - Non disk device support
 - >2TB logical drive support
 - Soft bad block management
 - DDF-compliant Configuration on Disk
 - Foreign Configuration Import
 - S.M.A.R.T. support
 - SES (inband) & SGPIO (sideband) management
- MegaRAID Management Suite
 - MegaRAID Storage Manager™ – Now with single login for domain admin
 - StorCLI (command-line interface)
 - CTRL-R (BIOS configuration utility)
 - HII (UEFI Human Interface Infrastructure)
- Environments
 - Operating

- 0°C to 70°C
 - 5 to 90% Non-condensing
- Storage
 - -45°C to 105°C
 - 5 to 90% Non-condensing
- PCI Card Type: 3.3V add-in Card
- PCI Voltage: +12V +/-8%
- PCI Power: 13.0 W (normal), 19.04 W (max)
- PCI Modes: Bus Master DMA
- LED Indicators: Internal
- Activity/Fault per x4 port – Heartbeat
- MTFB: >2,800,000 hours
- Compliances: EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/New Zealand (AS/NZS 3548); Safety: EN60950
- Regulatory Certifications: EN55022, EN55024, EN60950, EN 61000-3-2, EN 61000-3-3; FCC Class A, Class B; UL1950; UL; CSA C22.2; VCCI; RRL for MIC; BSMI; C-tick
- OS Support: Extensive support includes Microsoft® Windows® Server 2012/Vista/2008/Server 2003, Linux®, Solaris™ (x86), FreeBSD®, VMware® and more. Visit the download center for the most complete list of supported operating systems: www.lsi.com/support
- Brackets: Full Height and Low-Profile

For more information of this Broadcom MegaRAID SAS 9341-4i, please visit Broadcom website:

<https://docs.broadcom.com/doc/12352414>

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